1 Conjunto de datos

1. **BAO**: BAO-BOSS-DR12, 6 puntos¹

- Nombre del likelihood: bao_boss_dr12

${f z}$	distance-type	value
0.38	dM(rsfid/rs)	1512.39
0.38	Hz(rs/rsfid)	81.2087
0.51	dM(rsfid/rs)	1975.22
0.51	Hz(rs/rsfid)	90.9029
0.61	dM(rsfid/rs)	2306.68
0.61	Hz(rs/rsfid)	98.9647

- 2. Supernovas: SDSS-II Joint Light-curve Analysis (JLA), 740 puntos²
 - Nombre del likelihood: JLA
 - Se fijaron los valores de los nuisance parameters de acuerdo con [arXiv:1401.4064v2, tabla 15, fila 1]
 - $\alpha = 0.141$
 - $\beta = 3.099$
 - M = -19.09
 - $\Delta M = -0.070$
- 3. CMB: Planck TT + lowP (2015), [NUMERO DE DATOS?]
 - Nombre de los likelihoods: Planck_highl, Planck_lowl
 - low- $\ell = \{\ell = 2, \ell = 29\}$, high- $\ell = \{\ell = 30, \ell = 2508\}$
 - Se fijaron los valores de los nuisance parameters de acuerdo con el archivo de montepython base2015.param



Figure 1: [mean, min, max, 1-sigma, scale, 'role']

2 Comparación de dos parametrizaciones 2-dim (a, b) equivalentes

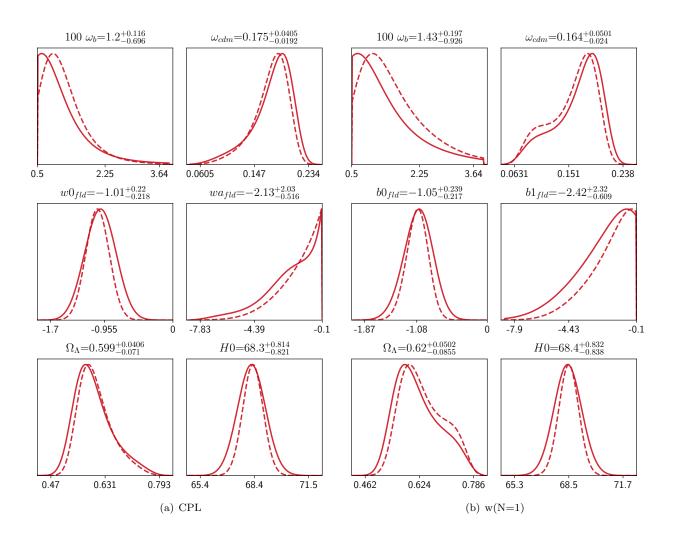
2.1 CPL

			Marginal Limits			
Param	best-fit	mean $\pm \sigma$	68%		95%	
			lower	upper	lower	upper
$100 \omega_b$	1.625	$1.196^{+0.12}_{-0.7}$	0.50	1.3120	0.5	2.551
ω_{cdm}	0.1488	$0.1751^{+0.04}_{-0.019}$	0.15583	0.21553	0.1021	0.2301
$w0_{fld}$	-1.102	$-1.011^{+0.22}_{-0.22}$	-1.229	-7.91	-1.441	-0.5831
wa_{fld}	-0.1441	$-2.133_{-0.52}^{-0.22}$	-0.26492	-0.1	-5.487	-0.1
Ω_{Λ}	0.6483	$0.5989^{+0.041}_{-0.071}$	0.12593	0.52793	0.4944	0.7248
H0	68.5	$68.29^{+0.81}_{-0.82}$	67.46	69.10	66.67	69.93

$$-\ln \mathcal{L}_{\min} = 343.001$$
, minimum $\chi^2 = 686$

 $^{^1}$ revisar el archivo montepython3-1/data/BAO_consensus_results_dM_Hz.txt

²revisar el archivo montepython3-1/data/JLA/jla_lcparams.txt



2.2 w(N=1)

			Marginal Limits			
Param	best-fit	mean $\pm \sigma$	68%		95%	
			lower	upper	lower	upper
$100 \omega_b$	2.589	$1.426^{+0.2}_{-0.93}$	0.5	1.6226	0.5	3.093
ω_{cdm}	0.1063	$0.1638^{+0.05}_{-0.024}$	0.13981	0.21387	0.0823	0.2273
$b0_{fld}$	-1.042	$-1.055^{+0.24}_{-0.22}$	-1.2717	-0.81614	-1.515	-0.6057
$b1_{fld}$	-0.2704	$-2.418^{+2.3}_{-0.61}$	-3.0262	-0.1	-5.878	-0.1
Ω_{Λ}	0.7194	$0.6196^{+0.05}_{-0.085}$	0.53413	0.66982	0.5039	0.759
H0	68.65	$68.42^{+0.83}_{-0.84}$	67.587	69.256	66.76	70.1

 $^{-\}ln\mathcal{L}_{\rm min}=342.922,$ minimum $\chi^2=685.8$

3 Resultados BAO+JLA vs Planck+BAO+JLA

3.1 w(N=1)

- BAO+JLA, 1.2m de pasos, 8 procesos, convergencia de todos los parámetros
- Planck+BAO+JLA, 950k pasos, 8 procesos, convergencia de todos los parámetros

Param	best-fit	$mean \pm \sigma$	95% lower	95% upper
$100 \omega_b$	2.589	$1.426^{+0.2}_{-0.93}$	0.5	3.093
ω_{cdm}	0.1063	$0.1638^{+0.05}_{-0.024}$	0.0823	0.2273
$b0_{fld}$	-1.042	$-1.055^{+0.24}_{-0.22}$	-1.515	-0.6057
$b1_{fld}$	-0.2704	$-2.418^{+2.3}_{-0.61}$	-5.878	-0.1
Ω_{Λ}	0.7194	$0.6196^{+0.05}_{-0.085}$	0.5039	0.759
H0	68.65	$68.42^{+0.83}_{-0.84}$	66.76	70.1

 $-\ln \mathcal{L}_{\min} = 342.922$, minimum $\chi^2 = 685.8$

Param	best-fit	$mean \pm \sigma$	95% lower	95% upper
$100 \omega_b$	2.238	$2.238^{+0.018}_{-0.018}$	2.202	2.275
ω_{cdm}	0.1191	$0.1192^{+0.0019}_{-0.0019}$	0.1155	0.1231
$10^{+9}A_s$	2.264	$2.245^{+0.075}_{-0.079}$	2.091	2.401
n_s	0.9697	$0.9699^{+0.0048}_{-0.0049}$	0.9603	0.9795
$ au_{reio}$	0.09225	$0.08777^{+0.018}_{-0.018}$	0.05146	0.1236
$b0_{fld}$	-0.9266	$-0.9242^{+0.12}_{-0.13}$	-1.17	-0.6762
$b1_{fld}$	-1.28	$-1.331^{+0.39}_{-0.29}$	-2.05	-0.6609
Ω_{Λ}	0.6961	$0.6968^{+0.0083}_{-0.0079}$	0.6805	0.7129
z_{reio}	11.19	$10.75_{-1.5}^{+1.7}$	7.565	13.87
H0	68.24	$68.35^{+0.77}_{-0.79}$	66.81	69.93
$\sigma 8$	0.8471	$0.8453^{+0.019}_{-0.019}$	0.808	0.8823

 $-\ln \mathcal{L}_{\min} = 5987.82$, minimum $\chi^2 = 1.198e + 04$

3.2 w(N=2)

- BAO+JLA, 1.2m de pasos, 8 procesos, convergencia de todos los parámetros
- Planck+BAO+JLA, 1m de pasos, 6 procesos, convergencia parcial

Param	best-fit	$mean \pm \sigma$	95% lower	95% upper
$100 \omega_b$	3.946	$1.675^{+0.31}_{-1.2}$	0.5	3.528
ω_{cdm}	0.06009	$0.1528^{+0.058}_{-0.031}$	0.06814	0.2216
$b0_{fld}$	-1.136	$-1.209_{-0.28}^{+0.28}$	-1.785	-0.633
$b1_{fld}$	1.845	$-1.404^{+3.5}_{-2.5}$	-7.434	4.162
$b2_{fld}$	-4.629	$-4.69^{+1.9}_{-3.9}$	-8.793	-0.3901
Ω_{Λ}	0.79	$0.6403^{+0.063}_{-0.097}$	0.5151	0.7834
H0	68.85	$68.71^{+0.91}_{-0.91}$	66.88	70.53

 $-\ln \mathcal{L}_{\min} = 342.752$, minimum $\chi^2 = 685.5$

Param	best-fit	$mean \pm \sigma$	95% lower	95% upper
$100 \omega_b$	2.248	$2.24^{+0.018}_{-0.018}$	2.204	2.275
ω_{cdm}	0.1189	$0.1191^{+0.0019}_{-0.0017}$	0.1155	0.1226
$10^{+9}A_s$	2.249	$2.238^{+0.072}_{-0.08}$	2.088	2.395
n_s	0.9707	$0.9702^{+0.0044}_{-0.0048}$	0.9612	0.9792
$ au_{reio}$	0.08929	$0.08632_{-0.018}^{+0.018}$	0.0506	0.1226
$b0_{fld}$	-1.118	$-1.053^{+0.16}_{-0.19}$	-1.399	-0.7057
$b1_{fld}$	-0.5685	-1.226_{nan}^{+nan}	nan	nan
$b2_{fld}$	-2.65	-2.05^{+nan}_{nan}	nan	nan
Ω_{Λ}	0.7002	$0.6987^{+0.0083}_{-0.0079}$	0.6825	0.7146
z_{reio}	10.88	$10.6^{+1.6}_{-1.5}$	7.417	13.71
H0	68.66	$68.54^{+0.8}_{-0.83}$	66.95	70.12
$\sigma 8$	0.8548	$0.853^{+0.018}_{-0.019}$	0.817	0.8896

 $-\ln \mathcal{L}_{\min} = 5987.24, \text{ minimum } \chi^2 = 1.197e + 04$

